FEDERAL COMMUNICATIONS COMMISSION

CLASS OF STATION FM LCJ

The following application is submitted for action by the Chief, Broadcast Bureau.

ST	FILE NUMBER	CALL	APPLICANT AND LOCATION	NATURE OF APPLICATION
CA	BPED -920316ME N/M	NEW 90.9MHZ	CALIFORNIA STATE UNIVERSITY REDDING CA	CP FOR NEW EDUC FM STATION ON:90.9 MHZ., ERP: 0.60 KW (H&V), HAAT: 1083 METERS (H&V), 40 36 10 122 38 58

LICENSE EXPIRATION DATE PD: 3-24-92

for Lois C. Jones
CHIEF, LICENSE DIVISION

RECOMMENDATION: GRANT( ) CONSTRUCTION DATES, START _____ END _____

CONTESTED ( ) UNCONTESTED ( )

APPROVED _____

_____
FOR CHIEF, BROADCAST BUREAU

F.C.C.-WASHINGTON, D.C.

Form A-378
January 1980

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DIRECT DIAL: (202) 452-4836

BY HAND

March 16, 192

Ms. Donna Searcy
Secretary
Federal Communications Commission
Washington, D.C. 20540

Re: Application for a New
Noncommercial FM Station
Redding, CA

Dear Ms. Searcy

Transmitted herewith, on behalf of The University Foundation, California State University, Chico, ("Foundation") are the original and two (2) copies of its application for a new noncommercial FM station at Redding, California, on Channel 215A. The purpose of the filing of this application is to resolve the outstanding dispute between the Foundation and the State of Oregon Acting By and Through the State Board of Higher Education for the benefit of Southern Oregon State College ("Oregon"), thus providing first local noncommercial FM service to the Redding market. By way of background, Foundation offers the following:

1. Foundation has an application (BPED-880610ML) for a new noncommercial FM Station on Channel 205A at Redding pending at the Commission which has cleared the cut-off process.* Oregon filed an application for the same frequency, BPED-900129MH, which has

---

* While the rules of the Commission do not prohibit a qualified entity from having more than one noncommercial station in any particular community, Foundation wants it to be crystal clear from the outset that it intends to dismiss its application for Channel 205 as soon as the instant application clears the cut-off process without opposition.

been dismissed. However, an application for review has been filed seeking reinstatement. In addition, there is a Request for Sanctions filed by Oregon against the grant of Foundation's application at Redding.

2. Both parties have been fully aware of the availability of Channel 215 since at least March 15, 1990 when the subject came up in a televised discussion between representatives of both institutions over the facilities of Viacom Cable Access Channel 28 in Redding.

3. Because Foundation had completed the cut-off process, it has been reluctant to lose the protection provided thereby and had previously urged Oregon to change fequencies. Oregon has proven reluctant to do that due at least in part to the pendency of their application for review.

4. Because Foundation has the local money now available to match a federal grant under the Public Telecommunications Facilities Program (PTFP), and because it is anxious to provide locally originated public radio service to the people of Redding and surrounding Shasta County, Foundation now seeks to resolve the lingering dispute and clear the way for a first, and perhaps a second, locally originated public radio signal.

5. By letter dated March 15, 1991, to Jan Gay, counsel for Oregon indicated that the availabiliaty of a second channel (at that time for Oregon, now for Foundation) would "make far less likely any future challenges by Oregon and (Foundation) to each other's activities. In this way, potentially long and costly litigation which would tax the resources of the parties as well as the Commission could be avoided."

6. Counsel for Oregon has been informed of Foundation's plan and will be kept fully informed of any future developments.

For all of the above reasons, Foundation requests expedited processing of the instant application.

Since the applicant is an agency of the State of California, no filing fee is required.

Should you have any questions with respect to the above filing, please contact the undersigned.

Very truly yours

Wayne Coy, Jr.

Courtesy Copy: Jan Gay
Allen Myers
cc: Gerald Stevens-Kittner

Federal Communications Commission
Washington, D. C. 20554

FCC 340

Approved by OMB
3060-0034
Expires 4/30/92
See Page 23 for information regarding public burden estimat

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

(Carefully read instructions before filing form) Return only form to FCC

MAR 17 3 09 PM '92

RECEIVED

MAR 16 1992

Federal Communications Commission
Office of the Secretary

For Commission Use Only
BPED-
File No. 920316MA

Section I - GENERAL INFORMATION

1. Name of Applicant	Send notices and communications to the following person at the address below:
The University Foundation California State University Chico	Name Jack Brown KCHO-FM
Street Address or P.O. Box 1 st and Normal Sts.,	Street Address or P.O. Box California State University
City: Chico / State: CA / ZIP Code: 95929	City: Chico / State: CA / ZIP Code: 95929
Telephone No. (Include Area Code) (916) 898-6100	Telephone No. (Include Area Code) (916) 898-6100

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency	(b) Principal Community	City	State
215 (90.9 MHZ)		REDDING	CA.

(c) Check one of the following boxes:

☒ Application for **NEW** station

☐ **MAJOR** change in licensed facilities; call sign: .....

☐ **MINOR** change in licensed facilities; call sign: .....

☐ **MAJOR** modification of construction permit; call sign: .....

File No. of construction permit: .....

☐ **MINOR** modification of construction permit; call sign: .....

File No. of construction permit: .....

☐ **AMENDMENT** to pending application; application file number: .....

NOTE: It is not necessary to ... 90.9MHZ ... uld you do so, however, please submit only Section I and those ... BPED -920316ME NEW ... nation.

REDDING CA
CALIFORNIA STATE UNIVERSITY

3. Is this application mutually exclu ... ☐ Yes ☒ No

If Yes, state:	Call letters	Community of License: City	Community of License: State

Section II - LEGAL QUALIFICATIONS

Name of Applicant

The University Foundation, California State University, Chico

1. Applicant is: *(Check one box below)*

XXX (a) governmental or public educational agency, board or institution

☐ (b) private nonprofit educational institution

☐ (c) Other *(specify)*

2. For applicants 1(c) only, describe in an Exhibit the nature and educational purposes of the applicant. — Exhibit No.

3. For applicants 1(c) applying for a new noncommercial educational television station only, describe in an Exhibit how the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural and civic segments of the principal community to be served. — Exhibit No.

4. Describe in an Exhibit how the proposed station will be used, in accordance with 47 C.F.R. Section 73.503 or Section 73.621, for the advancement of an educational program. — Exhibit No. 1.

5. Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or other document which would restrict the applicant in advancing an educational program or complying with any Commission rule, policy or provision of the Communications Act of 1934, as amended? — ☐ Yes [X] No

If Yes, provide particulars in an Exhibit. — Exhibit No.

CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS

6. (a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (See Instruction B to Section II.) — ☐ Yes [X] No

(b) Will any funds, credits or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents? — ☐ Yes [X] No

If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance. — Exhibit No.

7. (a) Has an adverse finding been made or an adverse final action taken by any court or administrative body as to the applicant or any party to this application in a civil or criminal proceeding brought under the provisions of any law related to the following:

Any felony; broadcast related antitrust or unfair competition; criminal fraud or fraud before another governmental unit; or discrimination? — ☐ Yes [X] No

(b) Is there now pending in any court or administrative body any proceeding involving any of the matters referred to in (a) above? — ☐ Yes [XX] No

If the answer to (a) and/or (b) above is Yes, attach an Exhibit giving full disclosure concerning persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), a statement of the facts upon which the proceeding is or was based or the nature of the offense alleged or committed, and a description of the current status or disposition of the matter. — Exhibit No.

PARTIES TO APPLICATION

8. Complete the following Table with respect to all parties to this application:

(NOTE: **If the applicant** considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.)

INSTRUCTIONS: If applicant is a corporation or an unincorporated association with 50 or fewer stockholders, stock subscribers, holders of membership certificate or other ownership interest, fill out all columns, giving the information requested as to all officers, directors and members of governing board. In addition, give the information as to all persons or entities who are the beneficial or record owners of or have the right to vote capital stock, membership or ownership interests or are subscribers to such interests. **If the applicant has more than 50 stockholders, stock subscribers or holders of membership certificates or other ownership interests,** furnish the information as to officers, directors, members of governing board, and all persons or entities who are the beneficial or record owners of or have the right to vote 1% or more of the capital stock, membership or ownership interests. **If applicant is a governmental or public educational agency, board or institution,** fill out columns (a), (b), and (c) as to all members of the governing board and chief executive officers.

Name and Residence Address(es) (a)	Office Held (b)	Director or Member of Governing Board (c)		% of: Ownership (O) or Voting Stock (VS) or Membership (M) (d)
		YES	NO	
See EXHIBIT A.				

Section II - LEGAL QUALIFICATIONS (Page 3)

9. Does the applicant or any party to this application have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission? [X] Yes [ ] No

(b) a broadcast application which has been dismissed with prejudice by the Commission? [ ] Yes [X] No

(c) a broadcast application which has been denied by the Commission? [ ] Yes [X] No

(d) a broadcast station, the license of which has been revoked? [ ] Yes [X] No

(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant? [X] Yes [ ] No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information: Exhibit No. 2.

(1) Name of party having interest;
(2) Nature of interest or connection, giving dates;
(3) Call letters of stations or file number of application or docket; and
(4) Location.

SECTION III - FINANCIAL QUALIFICATIONS

Note: If this application is for a change in an operating facility, DO NOT fill out this Section.

1. Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration? [X] Yes [ ] No

2. Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision? [ ] Yes [X] No

NOTE: If either Questions 1 or 2 is answered "Yes," your application cannot be granted until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further action on your part is required. If you rely on funds from a source specified in Question 2, **you must advise the F.C.C. when the funds are committed or appropriated.** This should be accomplished by letter amendment to your application, in triplicate, signed in the same manner as the original application, and clearly identifying the application to be amended.

3. The applicant certifies, except as noted above, that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without additional funds. [X] Yes [ ] No

SECTION IV - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area. Exhibit No. **

NOTE: No program service statement need be filed where the proposed station's programming would be **wholly** "instructional" as that type of programming is defined in the Instructions to this Section.

** See EXHIBIT 1.

SECTION VI – EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees? ☐ Yes ☒ No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

SECTION VII – CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580? ☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. *(See Section 304 of the Communications Act of 1934, as amended.)*

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S. CODE, TITLE 18, SECTION 1001.

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant	Title
The University Foundation California State University, Chico	Secretary
Signature William L. Stephens William L. Stephens	**Date** March 12, 1992

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose for which the information will be used is to determine if the benefit requested is consistent with the public interest. The staff, consisting variously of attorneys, analysts, engineers and applications examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing. If all the information is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 76 to 80 hours with an average of 78 hours 04 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Office of Managing Director, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

SITE CERTIFICATION

1. Has the applicant reasonable assurance, in good faith, that the site or structure proposed in Section V of this form, as the location of its transmitting antenna, will be available to the applicant for the applicant's intended purpose? X YES ___ NO

   If NO, attach as an Exhibit, a full explanation.

2. If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contracting the owner or person possessing control of the site or structure.

   Bill Hall — Name of person contacted

   916/ 243-7777 — Telephone No. (include area code)

   Person contacted: (check one box below)

   ___ Owner X Owner's Agent ___ Other (specify)

William L. Stephens
Applicant's Signature

March 12, 1992
Date

EXHIBIT 1.

F.C.C. FORM 340-LEGAL QUALIFICATIONS

QUESTION 4-PAGE 2.

The University Foundation, California State University, Chico, intends to offer programming that will educate and enrich the lives of the residents of the station's service area. The station will broadcast educational, informational, cultural and entertainment programming. The station intends to ascertain the programming needs of the citizens living in the coverage area of the station through continuous interaction between station management, community leaders and audiences. These goals will be met by both local production and by making national programs, such as those from National Public Radio and American Public Radio, available to the station's listeners.

EXHIBIT 2

LEGAL QUALIFICATIONS

(a) 1. KCHO-FM, Chico, Butte County, California file number BLED-860514 KD

2. Application for FM Channel 205 in Redding, Shasta County, California file number BPED-880610 ML

(e) 1. The University Foundation, California State University, Chico

2. Licensee of KCHO-FM and applicant for channel 205 in Redding, Ca.

3. File number BPED-880610 ML for channel 205.

4. The University Foundation, California State University, Chico
West First & Normal Streets
Chico, California 959529

REMARKS

On June 29, 1989, The State of Oregon acting by and through the State Board of Higher Education, the licensee of KSOR at Southern Oregon State College in Ashland, Oregon filed with the Federal Communications Commission a REQUEST FOR SANCTIONS against the application of the University Foundation, California State University, Chico number BPED-880610 ML for channel 205 to serve Redding, California. The filing alleged "abuse of FCC process" on the part of the University Foundation.

With this filing for channel 215, the University Foundation, California State University, Chico hopes to resolve a prolonged and unchanging dispute concerning channel 205 so that a local, educational public radio service can be provided for the people of Redding, California.

EXHIBIT A.
F.C.C. FORM 340

THE UNIVERSITY FOUNDATION
CALIFORNIA STATE UNIVERSITY, CHICO
BOARD OF GOVERNORS - MEMBERSHIP
1991-1992

COMMUNITY MEMBERS

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944 Bryant
Chico, CA 95926
891-6030
9/1/86-8/31/94

Fred Davis
City Manager
P. O. Box 3420
Chico, CA 95927
wk.895-4803/4802
9/1/79-8/31/92

Gilbert Jones
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Roger Marshall
Law Offices
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wk. 895-1512
891-6122
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(Position vacant,
to be appointed by
President)

Dennis O'Connell
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(415)453-5581
9/1/88-8/31/92

David Sanders
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General Manager
Grass Valley Group
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Chair
Marilyn Warrens
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12/1/81-8/31/95

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Craig DeLuz
A.S. President
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Elaine Wangberg,
Research Officer
Vice Provost for
Research
898-5391 Zip 875
8/23/86-Indefinite

Robin S. Wilson
President, CSUC
898-5201 Zip 150
7/1/80 - Indefinite

ALSO ATTENDING:

Joyce Friedman
A.S. Business Office
898-6815 Zip 248

Richard Jackson
Foundation Administrator
898-6811 Zip 246

Ed Masterson
Director, Univ. Relations
and Development
898-5297 Zip 155

Paul Moore
Vice Pres., Student
Affairs
898-6131 Zip 125

APPLICATION FOR CONSTRUCTION PERMIT

NEW EDUCATIONAL FM BROADCAST STATION

CH 215 0.60 KW ERP H & V AT 1083 M AAT

THE UNIVERSITY FOUNDATION *

CALIFORNIA STATE UNIVERSITY AT CHICO

REDDING, CALIFORNIA

920306

KESSLER AND GEHMAN ASSOCIATES, INC.

KGA

TELECOMMUNICATIONS CONSULTING ENGINEERS

507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

THE UNIVERSITY FOUNDATION CALIFORNIA STATE UNIVERSITY AT CHICO

Call letters *(if issued)*	Is this application being filed in response to a window? ☐ Yes ☒ No If Yes, specify closing date: _____

Purpose of Application: *(check appropriate box(es))*

- ☒ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting-structure height
- ☐ Effective radiated power
- ☐ Antenna height above average terrain
- ☐ Frequency
- ☐ Antenna location
- ☐ Class
- ☐ Main Studio location
- ☐ Other *(Summarize briefly)*

File Number(s) _____

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
215	REDDING	SHASTA	CA

Class *(check only one box below)*

☐ A ☐ B1 ☐ B ☐ C3
☒ C2 ☐ C1 ☐ C ☐ D

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

ON SHASTA BALLY MOUNTAIN, 21.5 KM WEST OF REDDING, SHASTA COUNTY, CA

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	40 °	36 '	10 "	Longitude	122 °	38 '	58 "

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. KNCQ FILE NO. BLH 851104KF

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

920306 DNA

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ☒ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ☐ Yes ☒ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No. DNA

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	NONE		
(b)			

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 1860 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 53 meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)] 1913 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 46 meters (H)

46 meters (V)

(2) above mean sea level [(a)(1) + (b)(1)] 1906 meters (H)

1906 meters (V)

(3) above average terrain 1083 meters (H)

1083 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No. *FIG. 2

9. Effective Radiated Power:
(a) ERP in the horizontal plane 0.60 kw (H*) 0.60 kw (V*)

(b) Is beam tilt proposed? ☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No. DNA

_____ kw (H*) _____ kw (V*)

*Polarization

*See attached engineering statement 920306

10. Is a directional antenna proposed? ☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field. Exhibit No. DNA

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? ☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No. DNA

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? ☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)* Exhibit No. *

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. Exhibit No. *FIG.3

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: Exhibit No. *FIG. 4

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 8,351 sq. km. Population 148,395

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours. Exhibit No. DNA

Enter the following from Exhibit above: Gain Area _____ sq. mi.
Loss Area _____ sq. mi.

Percent change (gain area plus loss area as percentage of present area) _____ %.
If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

*See attached engineering statement

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17. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. DNA

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: _____)

18. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.333).*

Source of terrain data: *(check only one box below)*

☐ Linearly interpolated 30-second database ☐ 7.5 minute topographic map

(Source: _____)

☒ Other *(briefly summarize)* LINEARLY INTERPOLATED THREE ARC SECOND TERRAIN DATA BASE OF THE DEFENSE MAPPING INDUSTRY

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	1233	54.6
45	1229	54.5
90	1447	57.2
135	1210	54.3
180	1118	52.9
225	639	41.2
270	833	47.2
315	957	50.0

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? ☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No. DNA

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20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947. Exhibit No. DNA

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: Exhibit No. *FIG.5

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
(d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
(e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
(f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
(g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency (i.f.) interference).* Exhibit No. *

23.(a) Is the proposed operation on Channel 218, 219, or 220? ☐ Yes ☒ No

(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? ☐ Yes ☐ No

DNA

(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223. Exhibit No. DNA

(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. Exhibit No. DNA

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

*See attached engineering statement

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SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 6)

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No. DNA

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

[X] Yes [ ] No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No. *FIG.6

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

[ ] Yes [X] No

If Yes, attach as an Exhibit information required in 1/. *(Except for Class B (secondary) proposals.)*

Exhibit No. DNA

26. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

[ ] Yes [X] No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No. DNA

If No, explain briefly why not.

THE PROVISIONS OF SECTION 1.1307 DO NOT CLASSIFY THE PROPOSED CONSTRUCTION AS HAVING A SIGNIFICANT ENVIRONMENTAL IMPACT.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)*	Relationship to Applicant *(e.g., Consulting Engineer)*
KEITH G. BLANTON	CONSULTING ENGINEER
Signature: Keith G. Blanton	Address *(Include ZIP Code)*: 507 NW 60th Street, Ste. C GAINESVILLE, FL 32607
Date: MARCH 10, 1992	Telephone No. *(Include Area Code)*: (904) 332-3157

*See attached engineering statement

ENGINEERING STATEMENT OF KEITH G. BLANTON OF THE FIRM OF KESSLER AND GEHMAN ASSOCIATES, INC.,CONSULTING ENGINEERS, IN CONNECTION WITH THE APPLICATION OF THE UNIVERSITY FOUNDATION CALIFORNIA STATE UNIVERSITY AT CHICO FOR A CONSTRUCTION PERMIT FOR A NEW FM BROADCAST STATION WHICH WOULD OPERATE ON CHANNEL 215 WITH AN EFFECTIVE RADIATED POWER OF 0.60 KILOWATTS HORIZONTALLY AND VERTICALLY POLARIZED AT AN EFFECTIVE ANTENNA HEIGHT OF 1083 METERS ABOVE AVERAGE TERRAIN IN THE VICINITY OF REDDING, CALIFORNIA

I, Keith G. Blanton, am an associate of Kessler and Gehman Associates, Inc., with offices in Gainesville, Florida. I have been working in the field of radio and television consulting engineering since 1961. I graduated from Duke University in 1951 with a Bachelor of Science degree in Physics.

This firm has been employed by The University Foundation California State University at Chico to make engineering studies and to prepare the engineering portion of an application for construction permit for a new Frequency Modulation Broadcast Station which would operate on channel 215 with an effective radiated power of 0.60 kilowatts horizontally and vertically polarized at an effective antenna height of 1083 meters above average terrain in the vicinity of Redding, California.

ATTACHED FIGURES

In carrying out the engineering studies, the following attached figures were prepared by me or under my supervision:

1. Proposed engineering specifications.
2. Elevation drawing of the antenna system.
3. USGS 7.5 minute topographic quadrangle showing the transmitter site and coordinate lines.
4. Map showing the proposed 60 dBu contour.
5. Allocation studies
6. Map showing the lack of interference to KVIQ channel 6.

PROPOSED OPERATION

It is proposed to utilize a type accepted transmitter which in conjunction with a 2 bay circularly polarized antenna and 50 meters

of 1-5/8 inch air dielectric transmission line will produce an effective radiated power of 0.60 kW horizontally and vertically polarized as shown in Figure 1.

PROPOSED TRANSMITTER LOCATION

It is proposed to side-mount a two bay FM antenna on an existing 53 meter tower on Shasta Bally Mountain 21.5 kM west of Redding. This tower supports the antenna of FM station KNCQ(FM) and is located 180 feet northwest of another tower supporting the antennas of KRCR-TV channel 7, KIXE-TV channel 9 and FM translator station K204AA. The FAA has not been notified of the proposed construction. There are no other FM or TV transmitters within 60 meters of the proposed site. The blanketing contour of the proposed facility will extend 0.31 kM from the site which is located in a sparsely populated area. The applicant will accept full responsibility for the elimination of interference (including that caused by receiver induced or other types of modulation) to facilities in existence, facilities authorized, and radio receivers in use prior to grant of this application.

The proposed operation on channel 215 will create a power density of less than 0.02 mw/cm^2 at a distance of 46 meters from the antenna which is the closest distance to the ground. The licensed operation of KNCQ(FM), K204AA, KRCR-TV, and KIXE-TV will create a power density on the ground of less than 0.37 mw/cm^2 so that the operation of the proposed channel 215 station would raise the power density from 0.37 mw/cm^2 to 0.39 mw/cm^2 well below the maximum permitted value of 1.0 mw/cm^2 established by ANSI. In addition the area about the tower is fenced with a locked gate with warning signs posted along the fence, at the gate and at the base of the tower. In order to protect maintenance workers the power into the antenna will be cut off when workers are on the tower.

ALLOCATION CONSIDERATIONS

The proposed operation on channel 215 will not cause prohibited contour overlap with either KSKY ch 215C1 at Klamath Falls, OR, KMUD ch 216C3 at Garberville, CA or KIBC ch 213C3 at Burney, CA as shown on the maps Figure 5. These are the nearest cochannel or adjacent channel stations limiting the operation of the proposed

station. It is pointed out that the contours shown on the maps were calculated and plotted using the 3 arc second terrain data base of the Defense Mapping Industry at 1° increments of horizontal azimuth in the case of the maps Figures 5B and 5C and at 5° increments in the case of the map Figure 5A. The maps were plotted by a computer driven Cal Comp Model 1023 x - y pen plotter using a software computer program "CVR" obtained from EDX Engineering Inc. of Eugene, OR.

The proposed site will meet the separation requirements involving IF interference. The nearest channel 268 or 269 station is KEKA-FM on channel 268C at Eureka, CA. at N. Latitude 40° 25′ 12" W. Longitude 124° 05′ 00", 123.2 kM from the proposed site where a minimum separation of 35.0 kM is required.

The only channel 6 TV station within 180 kM of the proposed channel 215 site at Redding is KVIQ(TV) at Eureka, CA 112.6 kM west of the proposed site and according to Table A in Section 73.525 (a)(1) of the FCC Rules is an affected station. Although the applicant has an agreement with KVIQ that they would accept any interference caused to KVIQ by the operation of the proposed station it is clearly shown on the map Figure 6 calculated in accordance with Section 73.525 that no objectionable interference would be caused within the KVIQ Grade B contour.

AREA AND POPULATION ANALYSIS

The area within the proposed 1 mV/m contour was determined by the computer in determining the distances to the contour. The population served by the proposed 1 mV/m contour was determined by using 1990 census data and a computer program that adds the populations of all enumeration districts whose centroid falls within the contour. The area and population served by the proposed 1 mV/m contour are 8,351 square kilometers and 148,395 persons respectively.

KESSLER AND GEHMAN ASSOCIATES, INC.

Keith G. Blanton

March 10, 1992

Keith G. Blanton, Consultant

THE UNIVERSITY FOUNDATION
REDDING, CALIFORNIA

ENGINEERING SPECIFICATIONS

A. Transmitter Site

Geographic coordinates determined from KNCQ(FM) license:

North Latitude	40°36'10"
West Longitude	122°38'58"

Street Address

On Shasta Bally Mountain, 21.5 kM W of Redding, Shasta County, CA

B. Proposed Facility

Channel	Number	215
	Frequency	90.9 MHz

C. Antenna Height

Height of site above mean sea level	1860 Meters
Overall height of structure above ground (including all appurtenances)	53 Meters
Overall height of structure above mean sea level (including all appurtenances)	1913 Meters
Height of site above average terrain	1037 Meters
Effective height of antenna above ground	46 Meters
Effective height of antenna above average terrain	1083 Meters
Effective height of antenna above mean sea level	1906 Meters

D. Proposed Operation

Transmitter power output	0.65 kW
Transmission line efficiency	0.924
Input to antenna	0.60 kW

	Horizontal	Vertical
Antenna power gain	1.0	1.0
Effective radiated power	0.60 kW	0.60 kW